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ABSTRACT

During the week preceding the onset of Fall Semester, 1971, entering Freshmen at the University of Illinois were asked to respond anonymously to a specially produced Student Attitude Inventory (SAI) (see TM 001 016). Questions contained on the SAI covered a variety of topics such as voting behavior, drug usage, and pollution. The purpose of this report is to summarize the data which was obtained from administration of the SAI, and to present the actual data in tabular form. (Author/CK)

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research report

Results of the 1971

Student Attitude Inventory

by

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ABSTRACT

During the week preceding the onset of Fall Semester, 1971, entering Freshmen at the University of Illinois were asked to respond anonymously to a specially produced Student Attitude Inventory (SAI). Questions contained on the SAI covered a variety of topics such as voting behavior, drug usage, and pollution. The purpose of this report is to summarize the data which were obtained from administration of the SAI, and to present the actual data in tabular form.

Among some of the more interesting results which are presented are the following:

Ninety-two percent of the respondents indicated an intention to exercise their newly acquired right to vote.

Two-thirds of the respondents claimed to have never smoked marijuana.

Hard drugs (e.g., cocaine and heroine) were at least <u>tried</u> by only one percent of the respondents.

Seventy-eight percent of the respondents underestimated the amount of Federal and State support which they will receive for their educations.

Most students indicated a belief that the University is a friendly place, with friendly, helpful, and dependable fellow students.

Results of the 1971 Student Attitude Inventory[1]

During the week preceding the onset of Fall semester, 1971, all entering Freshmen at the University of Illinois (Urbana campus) were requested to participate in diagnostic testing sessions. In addition to a standardized achievement test and the American Council of Education questionnaire, students were asked to respond anonymously to a specially produced Student Attitude Inventory (SAI). The purpose of this report is to: (a) verbally summarize the data which were obtained from administration of the SAI, and (b) present the actual data in tabular form. Explanations, reliabilities, intercorrelations among items, and other less superficial analyses will be presented in subsequent reports.

General Considerations

The SAI contains forty-two items, which can be divided into nine categories on the basis of content. The categories and items which fit into each are listed in Table 1. The actual questionnaire which was administered is found in Appendix I.

Although students responded anonymously, two demographic items were included: the sex of the respondent and the college of his major. The data from this administration of the SAI were analyzed over all respondents, and separately within colleges and sexes. The number of students responding within each grouping is presented in Table 2. Also found in Table 2 is the number of Freshmen admitted within each grouping. The percentage of respondents found in each response category of the forty-two items is presented in Appendix II. The data are presented over all respondents, and separately for respondents within each college and for males and females.

TABLE 1

Categories of Content for the

Items of the SAI

Subject	Items
Voting Behavior	1 - 6
Drug Usage	7 - 15
Financial	16, 18 - 20
Viet Nam War	21, 22
Education	17, 23, 31, 32
Religious Behavior	24, 25
Pollution	26 - 28
Housing	29, 30
Alienation	33 - 42
Social Isolation	33 - 38
Powerlessness	39 - 42

TABLE 2

Number of Respondents and Number of Students

Admitted within Each College and Sex

College	Number of Respondents	Number Admitted
Agriculture	325	476
Commerce and Business Administration	241	410
Fine and Applied Arts	347	484
Liberal Arts and Sciences	1523	1999
Education	194	295
Engineering	616	817
Physical Education	114	132
Aviation	42	63
No response	125	-
Sex		
Female	1365	1955
Male	2055	2821
No response	97	-
Total	3527	4776

The text of the present report will deal with each category of items as a unit. Generally, data from the group as a whole will be discussed. Data resulting from the breakdowns by college and sex will be discussed only when it seems to indicate some possibly meaningful differences.

Voting Behavior

Questions concerning predicted voting behavior are particularly pertinent this year because of newly passed legislation giving 18 year-olds the right to vote. A politically salient question is: Will the 18 year-old vote significantly alter the election results? About two-thirds of the students agreed or strongly agreed that the votes of 18 through 20 year olds will significantly alter election results, the remainder disagreed or strongly disagreed. Only two percent of the respondents strongly disagreed, possibly indicating a low degree of "political despair" among the student sample. A whopping 92 percent of the students indicated an intention to vote. Overall, two-thirds of the respondents indicated an increased interest in the political scene as a result of the passage of the eighteen year-old voting bill. This percentage varied from a high of 75% in the College of Physical Education to a low of 56% in the College of Engineering. Also, more females indicated an increased interest than males, 72% to 59%.

Students were asked to estimate the number of University of Illinois Freshmen who would agree with the preceeding item. As a group, they tended to underestimate, but only slightly. The average estimate was somewhat above 50%. Again, as a possible index of "political despair", two percent estimated the number at less than ten percent.

Students were asked what percentage of both University of Illinois Freshmen and 18 year-olds in the country would vote. The modal response

for both questions was the category, 50% to 74%. However, on an average, University of Illinois Freshmen were judged to have a slightly higher percentage of voters than 18 year-olds in general. For example, 25 percent of the respondents opined that 75% - 89% of University of Illinois Freshmen would vote, while only 15% of the respondents opined that 75% - 89% of 18 year-olds in the country would vote. As for the accuracy of these estimates, if one took at face value the number of students who claimed that they will vote, the estimates are low. However, certainty awaits post-election data.

Drug Usage

Popular myth has it that "pot" smoking is rampant in present-day high schools, and, furthermore, large numbers of students are experimenting with "hard" drugs. Data from the SAI do not support this contention, at least insofar as entering University of Illinois Freshmen are indicative. If these data actually represent honest reports, about two-thirds of University of Illinois entering Freshmen have never tried marijuana. Of the remaining one-third, fifteen percent might be considered habitual users (ten or more occasions). None of the other drugs included in the SAI were commonly used. Eight percent and five percent of the respondents admitted to having used amphetamines and barbituates, respectively, at least once, with two and one percent using them ten or more times. Mescoline was used at least once by six percent of the respondents. Only two percent claimed to have used it ten or more times. Finally, hard drugs were tried by only one percent of the sample.

When broken down by college, students in the College of Fine and Applied Arts and to a lesser extent the College of Commerce and Business Administration appear to be slightly more frequent drug users than

students in other colleges. On the other hand, the College of Agriculture had the lowest percentage of drug users, followed by the College of Education and the College of Engineering. Males also claimed to be more frequent drug users than females.

For the statement, "Marijuana is not as dangerous as the hard narcotics," a surprising eight percent disagreed and four percent strongly disagreed. This possibly indicates a number of respondents with cognitive structures in which drugs are not differentiated in terms of consequences, or a drug "back-lash" in which any assertion that marijuana is not as dangerous as the hard narcotics represents a concession that marijuana is not dangerous *per se*.

Respondents were asked to estimate the percentage of entering University of Illinois Freshmen who consider marijuana as being a relatively harmless drug. The modal response was 50% - 74%, followed closely by 75% - 89%. Respondents also estimated the percentage of their collegues who have used something "harder" than marijuana. The modal response for this item was 10% - 24%, with 41% of the respondents choosing this category. Another 33 percent estimated 25% - 49%. Based upon drug usage data presented above, these estimates would appear to be much too high.

Financial

The effect of the budget cut suffered by the University of Illinois was assessed as increasing the quality of education by six percent of the respondents. Forty percent predicted that the quality of education would go unchanged, leaving over fifty percent predicting a decrease.

Of the 55 percent of students who claimed to receive financial aid, 58 percent felt that they would not be able to attend the University of Illinois in the absence of such aid. If this figure is assumed to be

accurate, an elimination of financial aid would decrease the freshman class by about 32 percent, or by 1528 students.

Students were asked two factually based questions. Seventy per cent of the respondents indicated a belief that the minimum income a family needs to be ranked in the upper 25 percent of American families in family income was $20,000 or more. (In fact, nineteen percent felt the correct figure to be $30,000). The correct answer to this question is $14,000; thus, suggesting that University of Illinois Freshmen have an exaggerated view of American affluence.

Students were asked, "How much tax money, not including scholarships and grants, does each University of Illinois Student receive through State and Federal support of the University of Illinois?" A full eighteen percent of the students failed to respond to this question, indicating a lack of knowledge on the part of students. Of those responding, 78 percent underestimated the correct response, which is $1,500-$1,999. The modal response by students was $500-$999.

Viet Nam War

Overall, slightly more than one-half of the respondents favored President Nixon's withdrawal policy. In estimating what percentage of their colleagues favored Nixon's withdrawal policy, the modal response of the respondents was 25% - 49%, an underestimate probably more true of college students in general than entering freshmen.

Among the colleges, Agriculture majors were the most approving of Nixon's withdrawal policy (69%), followed by the Institute of Aviation (67%) and the College of Engineering (60%). Least favorable were majors in the College of Fine and Applied Arts (47%), Education (50%), and Liberal Arts and Sciences (50%). Slightly more males were favorable (55%) than females (51%).

Education

Four items dealt with the education process at the University of Illinois. Students were asked if the national job market affected their choice of a field of study. Overall, 41 percent felt it had. Surprisingly more females (45%) felt it had than males (39%). Not surprisingly, Colleges of Fine and Applied Arts majors indicated least concern (27%) and Colleges of Commerce and Business Administration majors indicated greatest concern (46%).

When asked the proper length of an undergraduate education, over two-thirds of the respondents assented to the present four years. Of those answering, only six percent proposed as radical a number as two years, and nine percent five or more years.

Seventy-eight percent of students agreed or strongly agreed that some required courses are necessary for a balanced education. Almost unanimous support was evoked for the statement, "A college education should provide opportunities for students to apply their knowledge to real-life situations."

Religious Behavior

Overall, twenty percent of the respondents indicated that they expect to attend religious services once a week or more while on campus. Another twenty percent anticipated attending several times per month. Fourteen percent indicated a "nominally religious" anticipated frequency of once a month. Finally, 43 percent responded to the seldom or never categories. Females displayed a slight tendency toward more frequent attendance than males. A large difference between the Colleges of Fine and Applied Arts and Agriculture was in evidence. Within the former, 53 percent of the respondents indicated seldom or never, as compared to 29 percent within the latter.

Respondents were asked to estimate the percentage of students at the University of Illinois who attend religious services at least once a week. The modal response was 20% - 40%, with 0% - 20% being the category with the next highest frequency. Obviously, entering freshmen do not perceive that they are entering an environment permeated by highly "religious" students.

Pollution

The three statements dealing with pollution all drew very strong support. Only five percent of the respondents disagreed with the proposition that pollution is a prime problem to be solved by my (the student's) generation. Only eight percent felt that most students would not agree with that statement. Finally, only six percent disagreed or strongly disagreed with the proposition that "Pollution control would be improved by imposing stiffer penalties on the violators."

Housing

Students seem to feel fairly strongly that the University of Illinois has an obligation to provide housing for its students, with only fourteen percent dissenting from that opinion. A greater split of opinion was evidenced on the question of allowing students to live where they want. Twenty-five percent strongly agreed and 36 percent agreed with this proposition, but 31 percent and 5 percent disagreed and strongly disagreed respectively.

Alienation

Ten items were taken from Dean's Alienation Scale[2], some of which were adapted to give as their referent the University of Illinois and students. The first five items are purported to measure feelings of social isolation, the second five, feelings of powerlessness. With

two notable exceptions, negative responses to the items were given by about 25 percent or less of the students. Sixty percent of the respondents indicated that "Sometimes I feel all alone at this University." (To put this into perspective, one should recall that this questionnaire was administered during the first week at college for most of these students.) Forty percent of the students indicated a belief that "Students are just so many cogs in the machinery of the University of Illinois." Thus, it appears that a substantial number of students have some feelings of depersonalization this early stage in their college careers.

Otherwise, most students indicated a belief that the University is a friendly place, with friendly, helpful, and dependable fellow students. Most respondents did <u>not</u> feel that they were being used by the University, that their freedom of choice was being circumvented, or that good grades are a matter of "getting the breaks." Finally, most students indicated that they do not "worry about the future facing today's students."

FOOTNOTES

[1]The authors would like to acknowledge the contribution of the following individuals and committee to the formation of the 1971 Student Attitude Inventory: David Eisenman, Eileen S. Kohen, Stanley R. Levy, William M. Stallings, and the Technical Committee on Testing, Eugene E. Oliver, Chairman.

[2]Dwight G. Dean, "Alienation: Its Meaning and Measurement," American Sociological Review, 26, 1961, 753-758.

APPENDIX I

STUDENT ATTITUDE INVENTORY - 1971

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STUDENT ATTITUDE INVENTORY - 1971

1. The 18-year-old vote will significantly alter the 1972 election results.
    1. Strongly Agree
    2. Agree
    3. Disagree
    4. Strongly Disagree

2. Do you intend to exercise your right to vote?
    1. Yes
    2. No

3. Has the passage of the 18-year-old voting bill increased your interest in the political scene?
    1. Yes
    2. No

4. What percentage of this University of Illinois entering freshmen class do you think generally agrees that the 18-year-old vote will significantly alter election results?
    1. 0-9%
    2. 10-24%
    3. 25-49%
    4. 50-74%
    5. 75-89%
    6. 90-100%

5. What percentage of this University of Illinois freshman class do you think will exercise their right to vote?
    1. 0-9%
    2. 10-24%
    3. 25-49%
    4. 50-74%
    5. 75-89%
    6. 90-100%

6. What percentage of all 18-year-olds in the country do you think will exercise their right to vote?
    1. 0-9%
    2. 10-24%
    3. 25-49%
    4. 50-74%
    5. 75-89%
    6. 90-100%

TM 001 016

7. What percentage of this University of Illinois entering freshman class do you think considers marijuana as being a relatively harmless drug?

1. 0-9%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-89%
6. 90-100%

8. What percentage of this University of Illinois entering freshmen class do you think has used something "harder" than marijuana?

1. 0-9%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-89%
6. 90-100%

9. I personally have used marijuana:

1. Never
2. 1-3 times
3. 4-9 times
4. 10 or more times

10. I personally have used amphetamines ("speed", "uppers") for other than medical reasons:

1. Never
2. 1-3 times
3. 4-9 times
4. 10 or more times

11. I personally have used barbituates ("downers") for other than medical reasons:

1. Never
2. 1-3 times
3. 4-9 times
4. 10 or more times

12. I personally have used mescaline:

1. Never
2. 1-3 times
3. 4-9 times
4. 10 or more times

13. I personally have used LSD ("Acid"):

    1. Never
    2. 1-3 times
    3. 4-9 times
    4. 10 or more times

14. I personally have used hard drugs (e.g., cocaine and heroin):

    1. Never
    2. 1-3 times
    3. 4-9 times
    4. 10 or more times

15. Marijuana is not as dangerous as the hard narcotics (e.g., heroin):

    1. Strongly Agree
    2. Agree
    3. Disagree
    4. Strongly Disagree

16. The budget cut at the University of Illinois will affect undergraduate education by?

    1. Increasing the quality
    2. Leaving the quality unchanged
    3. Decreasing the quality

17. Has the present national job market had an effect on your choice of a field of study at the University of Illinois?

    1. Yes
    2. No

18. (Answer the following question only if you <u>do</u> receive grant or scholarship aid):
    If it were not for scholarship or grant aid, I would not be able to attend the University of Illinois.

    1. Yes
    2. No

19. What minimum income does a family need in order to be ranked in the upper 25% of American families annual income?

1. $12,000
2. $14,000
3. $16,000
4. $20,000
5. $25,000
6. $30,000

20. How much tax money, not including scholarships or grants, does each University of Illinois student receive through state and federal support of the University of Illinois?

1. $ 0 - $ 99
2. $100 - $249
3. $250 - $499
4. $500 - $999
5. $1,000 - $1,499
6. $1,500 - $1,999
7. $2,000 - $2,999
8. $3,000 - $3,999

21. I favor President Nixon's Vietnam withdrawal policy.

1. Yes
2. No

22. What percentage of this University of Illinois entering freshmen class do you think favors President Nixon's Vietnam withdrawal policy?

1. 0-9%
2. 10-24%
3. 25-49%
4. 50-74%
5. 75-89%
6. 90-100%

23. What do you think is the proper length of time an undergraduate education should take?

1. Two years
2. Three years
3. Four years
4. Five years
5. Six years

24. How frequently do you anticipate that you will attend religious services while on campus?

1. Once a week or more
2. Several times per month
3. About once a month
4. Seldom
5. Never

25. What percentages of students at the University of Illinois do you feel attend religious services at least once a week?

    1. 80-100%
    2. 60-80%
    3. 40-60%
    4. 20-40%
    5. 0-20%

Answer all the remaining questions, which deal with a variety of topics, (26-42) by marking: 1 for Strongly Agree; 2 for Agree; 3 for Disagree and 4 for Strongly Disagree.

26. I consider pollution to be a prime problem to be solved by my generation.
27. Most students consider pollution to be a prime problem to be solved by their generation.
28. Pollution control would be improved by imposing stiffer penalities on the violators.
29. The University of Illinois has an obligation to provide housing for its students.
30. The University of Illinois should allow all students to live wherever they wish.
31. Some required courses are necessary if an education is to be balanced.
32. A college education should provide opportunities for students to apply their knowledge in real-life situations.
33. The University of Illinois is basically a friendly place.
34. Fellow students are just naturally friendly and helpful.
35. Sometimes I feel all alone at this university.
36. There are few dependable ties between students any more
37. One can always find friends if he shows himself friendly.
38. Sometimes I have the feeling that the University of Illinois is using me.
39. There is little chance for good grades unless a student gets a break.
40. We're so regimented that there's not much room for choice even in personal matters.

41. Students are just so many cogs in the machinery of the University of Illinois.
42. I worry about the future facing today's students.

APPENDIX II

The percentage of all respondents and of respondents within each college and each sex in each response category of the items of the Student Attitude Inventory

TOTAL SAMPLE

N = 3527

ITEM	1	2	3	4	5	6	7	8	OMIT
1	17	49	31	02					00
2	92	07							00
3	64	33							01
4	02	10	24	37	21	05			01
5	01	05	25	40	25	04			01
6	01	08	33	41	15	02			01
7	03	10	22	30	28	06			02
8	15	41	33	08	01	00			02
9	66	10	07	15					01
10	90	04	02	02					01
11	93	03	01	01					01
12	91	04	02	01					01
13	93	03	01	02					01
14	97	01	00	00					01
15	45	42	08	04					01
16	06	40	51						01
17	41	57							03
18	21	32							01
19	03	06	14	25	26	19			48
20	06	09	13	20	16	08	06	03	06
21	53	41							18
22	06	20	35	19	10	05			05
23	06	19	63	08	01				04
24	20	20	14	28	15				03
25	01	04	21	44	27				02
26	59	33	04	01					03
27	38	52	07	01					02
28	62	29	05	01					03
29	36	47	10	04					03
30	25	36	31	05					03
31	24	54	13	05					03
32	51	42	02	00					03
33	19	64	11	02					03
34	12	63	18	02					04
35	13	44	30	08					04
36	04	20	56	16					04
37	35	51	08	01					05
38	04	16	54	22					04
39	03	11	60	22					05
40	05	18	55	18					05
41	06	26	41	09					05
42	21	42	15	03					18
									18

COLLEGE OF AGRICULTURE

N = 325

ITEM	1	2	3	4	5	6	7	8	OMIT
1	15	52	31	02					01
2	94	06							00
3	64	34							02
4	01	08	25	41	20	04			01
5	00	06	25	38	27	04			00
6	00	05	35	41	17	01			00
7	03	14	30	29	20	03			00
8	17	47	30	04	01	00			00
9	77	06	05	11					01
10	92	03	01	03					01
11	96	01	01	01					01
12	94	03	01	01					01
13	96	01	01	01					01
14	98	01	00	00					01
15	38	42	13	06					01
16	08	45	45						02
17	43	56							01
18	22	34							44
19	04	04	15	24	26	24			03
20	08	12	15	20	15	06	04	03	18
21	69	28							03
22	04	12	34	25	15	07			02
23	10	21	60	06	01				02
24	29	27	13	21	08				01
25	01	05	30	42	20				02
26	60	34	03	01					02
27	39	50	08	01					02
28	65	27	04	01					03
29	35	49	08	05					03
30	21	32	36	08					03
31	23	58	12	04					03
32	51	44	01	00					03
33	14	69	11	02					03
34	13	63	18	02					04
35	14	45	28	09					04
36	02	21	54	18					06
37	41	49	06	00					05
38	03	15	56	21					06
39	01	12	64	17					06
40	03	16	55	20					05
41	05	25	47	09					13
42	20	49	13	04					14

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

N = 241

ITEM	1	2	3	4	5	6	7	8	OMIT
1	18	50	28	03					00
2	94	05							00
3	66	32							01
4	02	12	23	36	21	04			01
5	01	07	20	40	25	06			01
6	01	11	34	37	14	03			01
7	04	10	21	29	28	07			01
8	20	41	27	08	02	01			01
9	58	15	10	17					01
10	92	05	01	02					01
11	96	02	00	01					01
12	92	05	01	02					01
13	93	03	01	01					01
14	97	01	00	01					01
15	47	43	07	02					01
16	07	44	46						02
17	46	52							01
18	13	24							64
19	04	08	18	29	20	16			05
20	07	10	11	22	19	06	08	03	13
21	53	44							02
22	07	24	34	18	07	07			02
23	08	21	63	05	01				02
24	21	16	16	29	17				01
25	02	03	16	43	34				02
26	61	32	05	01					01
27	44	48	05	01					02
28	64	31	03	01					01
29	46	43	06	05					01
30	27	38	29	05					01
31	33	50	12	03					01
32	59	37	02	00					01
33	26	57	13	02					01
34	13	62	20	02					03
35	11	44	30	12					02
36	03	22	54	18					02
37	40	49	08	01					02
38	03	15	51	29					01
39	04	15	56	24					01
40	06	21	51	20					01
41	08	26	35	11					20
42	18	43	12	06					21

COLLEGE OF FINE AND APPLIED ARTS

N = 347

ITEM	1	2	3	4	5	6	7	8	OMIT
1	15	49	33	03					01
2	92	07							00
3	69	29							02
4	01	10	25	37	22	04			01
5	01	03	25	40	27	04			01
6	01	06	34	41	16	01			01
7	03	08	19	31	31	05			01
8	11	41	38	07	01	00			01
9	53	13	08	26					01
10	84	05	05	05					01
11	90	05	02	02					01
12	86	06	03	03					01
13	89	06	01	03					01
14	96	02	02	00					01
15	47	42	07	03					01
16	04	46	45						05
17	27	71							01
18	22	25							54
19	03	04	14	29	27	18			06
20	05	12	16	18	14	08	05	01	20
21	47	50							03
22	07	20	39	16	10	03			04
23	04	19	62	10	01				04
24	14	19	12	37	16				03
25	01	05	19	44	28				03
26	62	31	04	01					03
27	40	51	05	00					03
28	65	24	06	01					03
29	35	46	10	04					04
30	27	37	28	03					04
31	19	58	13	05					04
32	55	37	03	01					04
33	17	64	13	01					05
34	12	61	20	01					06
35	16	44	28	08					04
36	04	22	55	13					06
37	33	50	10	02					04
38	03	20	53	19					06
39	03	12	62	18					05
40	05	20	55	14					06
41	04	29	43	07					17
42	26	43	14	02					16

COLLEGE OF LIBERAL ARTS AND SCIENCES

N = 1523

ITEM	1	2	3	4	5	6	7	8	OMIT
1	16	50	31	02					00
2	93	07							00
3	66	33							01
4	02	11	24	36	21	05			01
5	01	04	25	41	25	03			01
6	01	08	34	41	14	01			01
7	02	09	20	32	30	06			01
8	12	42	34	08	02	00			02
9	67	10	07	15					01
10	91	04	02	02					01
11	93	03	01	01					01
12	92	04	02	01					01
13	93	03	01	02					01
14	97	02	00	00					01
15	47	41	07	04					01
16	05	37	55						03
17	44	55							01
18	23	32							45
19	04	06	13	24	27	21			06
20	06	09	11	21	18	09	07	04	16
21	50	47							03
22	06	23	37	19	09	04			03
23	06	20	64	07	01				02
24	19	20	14	28	17				02
25	01	03	20	47	27				03
26	62	31	04	01					01
27	38	53	07	01					02
28	63	29	06	01					02
29	35	49	10	04					02
30	25	37	31	05					02
31	24	54	15	05					02
32	50	45	02	00					02
33	18	65	12	02					03
34	11	64	19	03					03
35	14	45	30	09					03
36	03	19	59	16					03
37	32	55	09	02					03
38	04	15	54	23					04
39	03	09	60	25					03
40	04	16	57	19					03
41	05	26	43	09					16
42	23	43	15	03					16

COLLEGE OF EDUCATION

N = 194

ITEM	1	2	3	4	5	6	7	8	OMIT
1	26	45	27	02					01
2	89	10							01
3	71	26							04
4	03	06	25	38	23	04			02
5	00	05	24	41	25	05			01
6	01	06	32	42	15	03			01
7	03	10	18	26	32	08			03
8	07	32	41	15	04	00			02
9	70	10	05	13					02
10	92	05	02	01					01
11	96	01	02	01					01
12	94	03	02	01					01
13	95	03	01	01					01
14	97	01	00	00					02
15	39	48	06	05					02
16	08	38	48						06
17	40	57							03
18	20	54							27
19	05	04	10	25	24	23			10
20	09	09	14	18	13	03	04	02	29
21	48	43							10
22	09	18	36	19	09	04			05
23	07	23	61	05	01				04
24	19	24	13	29	13				02
25	01	04	16	46	28				05
26	56	35	05	01					04
27	36	49	10	01					04
28	58	30	06	02					05
29	44	37	10	04					05
30	27	37	26	06					05
31	26	52	11	06					05
32	66	27	01	00					06
33	28	57	07	02					06
34	22	59	11	01					07
35	15	42	31	05					07
36	04	19	53	16					08
37	43	43	06	02					06
38	01	13	48	29					08
39	01	09	58	25					07
40	05	15	51	21					08
41	09	25	43	10					13
42	22	39	22	02					15

COLLEGE OF ENGINEERING

N = 616

ITEM	1	2	3	4	5	6	7	8	OMIT
1	16	48	33	03					00
2	91	08							01
3	56	41							03
4	04	11	25	36	18	05			02
5	02	06	27	38	21	05			01
6	01	12	31	39	14	02			02
7	04	12	25	27	24	05			03
8	24	41	25	05	01	00			03
9	70	09	05	14					03
10	89	04	02	02					03
11	92	03	01	01					03
12	91	03	02	01					03
13	92	02	01	03					02
14	95	02	00	00					02
15	41	44	10	04					02
16	05	38	53						04
17	42	55							03
18	21	29							50
19	02	08	15	25	24	16			08
20	07	07	12	19	16	11	06	05	16
21	60	31							08
22	06	18	32	20	11	06			06
23	05	14	63	12	01				05
24	21	17	15	27	15				05
25	01	04	22	41	27				05
26	55	35	05	01					04
27	36	53	06	01					04
28	58	29	06	02					04
29	32	49	10	04					04
30	20	36	34	06					04
31	25	55	11	05					05
32	46	44	04	00					05
33	19	65	10	01					05
34	12	62	19	02					05
35	13	45	30	07					05
36	04	20	54	15					06
37	36	51	07	01					05
38	05	16	55	18					06
39	04	14	57	18					07
40	05	22	51	16					06
41	08	24	35	09					22
42	17	38	19	03					23

COLLEGE OF PHYSICAL EDUCATION

N = 114

ITEM	1	2	3	4	5	6	7	8	OMIT
1	25	51	23	02					00
2	89	10							01
3	75	24							02
4	01	12	10	38	33	05			01
5	01	08	18	40	26	06			01
6	02	04	31	39	23	02			01
7	03	08	18	32	30	07			03
8	11	34	39	13	00	00			03
9	65	12	07	13					03
10	87	07	02	02					03
11	92	03	01	02					03
12	91	04	01	02					03
13	96	01	00	02					01
14	98	00	01	00					01
15	48	37	09	05					01
16	06	46	44						04
17	39	60							01
18	21	36							44
19	04	04	07	26	34	18			08
20	07	14	15	14	13	04	03	03	27
21	56	35							09
22	06	14	33	21	13	05			07
23	06	25	55	09	00				04
24	23	21	11	25	14				05
25	01	02	26	46	22				04
26	50	41	04	02					04
27	33	53	08	01					05
28	60	32	03	01					04
29	34	49	11	02					04
30	25	37	28	05					04
31	21	60	12	02					05
32	45	48	02	00					05
33	19	67	08	01					05
34	14	66	14	01					05
35	07	46	30	11					05
36	04	17	60	15					05
37	41	44	07	02					06
38	02	16	51	25					06
39	04	11	60	20					06
40	05	25	51	14					05
41	04	24	41	12					18
42	17	44	16	04					20

INSTITUTE OF AVIATION

N = 42

ITEM	1	2	3	4	5	6	7	8	OMIT
1	17	50	33	00					00
2	100	00							00
3	62	33							05
4	00	02	36	36	17	10			00
5	00	02	40	29	24	05			00
6	00	00	45	40	12	02			00
7	02	12	17	40	21	07			00
8	17	45	38	00	00	00			00
9	67	14	02	17					00
10	93	05	00	02					00
11	100	00	00	00					00
12	98	02	00	00					00
13	100	00	00	00					00
14	100	00	00	00					00
15	38	52	10	00					00
16	02	45	52						00
17	33	64							02
18	19	26							55
19	02	10	10	29	29	17			05
20	07	10	19	19	12	05	07	02	19
21	67	29							05
22	00	02	31	29	26	05			07
23	07	05	69	14	00				05
24	19	17	19	24	17				05
25	00	07	14	33	40				05
26	67	24	05	00					05
27	38	50	07	00					05
28	64	29	02	00					05
29	26	57	10	02					05
30	24	31	38	02					05
31	21	64	10	00					05
32	38	52	02	00					07
33	21	60	10	00					10
34	14	57	21	00					07
35	10	38	38	05					10
36	00	19	60	17					05
37	33	52	10	00					05
38	02	19	60	10					10
39	00	10	76	10					05
40	00	21	64	10					05
41	00	21	57	05					17
42	07	57	19	00					17

FEMALES

N = 1365

ITEM	1	2	3	4	5	6	7	8	OMIT
1	18	53	27	02					00
2	92	07							00
3	72	26							02
4	02	08	23	38	23	05			01
5	01	04	24	40	28	04			01
6	01	06	31	43	17	02			01
7	02	07	21	31	31	07			01
8	08	35	41	12	02	00			01
9	72	10	06	11					01
10	92	04	02	02					01
11	95	02	01	01					01
12	94	03	01	01					01
13	95	02	01	01					01
14	98	01	00	00					01
15	40	45	10	05					01
16	05	42	50						03
17	45	54							01
18	25	34							41
19	03	04	11	23	28	24			06
20	07	11	13	18	15	06	05	02	22
21	51	44							04
22	07	20	35	18	11	05			04
23	07	20	63	07	01				02
24	22	23	14	27	12				02
25	00	04	23	46	24				03
26	62	31	04	01					02
27	38	52	08	01					02
28	62	29	06	01					02
29	35	49	10	04					02
30	24	36	32	05					03
31	24	54	15	05					03
32	59	37	01	00					03
33	23	63	09	01					03
34	16	63	15	02					04
35	13	44	31	08					04
36	03	17	60	15					05
37	38	50	07	02					04
38	03	14	54	25					04
39	02	08	61	25					04
40	04	15	57	20					04
41	06	25	46	10					14
42	25	44	14	02					15

MALES

N = 2055

ITEM	1	2	3	4	5	6	7	8	OMIT
1	16	48	33	03					00
2	92	07							00
3	60	38							02
4	02	11	25	36	19	04			01
5	01	05	25	40	23	04			01
6	01	08	36	39	13	01			01
7	03	11	21	31	27	05			01
8	17	46	29	05	01	00			02
9	60	11	08	20					01
10	88	05	02	02					01
11	92	04	01	02					01
12	89	05	03	02					01
13	91	04	01	03					01
14	96	02	01	00					01
15	50	38	07	04					01
16	06	38	53						03
17	38	60							01
18	18	31							51
19	04	07	16	27	24	16			05
20	06	09	12	21	07	09	17	04	14
21	53	43							04
22	05	21	37	19	09	05			04
23	06	20	63	08	01				03
24	18	19	13	31	17				02
25	01	04	18	44	29				03
26	59	33	04	01					02
27	39	51	07	01					03
28	63	28	05	01					03
29	37	46	09	04					03
30	26	36	30	06					03
31	24	56	12	05					03
32	47	46	03	01					03
33	16	65	14	02					04
34	10	63	21	02					04
35	14	45	29	10					04
36	04	22	54	15					04
37	33	53	09	01					04
38	04	18	52	21					05
39	03	12	60	20					04
40	05	20	54	17					04
41	05	27	39	09					20
42	19	43	15	04					20